

In the Specification:

Please replace Table 4 on pages 169-174 with the following amended Table 4:

Table 4: Summary of ScFv Groups and CDR 3 Sequences for PA-Binding Phage Clones

Group	HC group, LC group	Representative scFv clone	HC CDR 3 Seq.	SEQ ID NO:	LC CDR 3 Seq.	SEQ ID NO:	PA Binding Pos/Neg
1	HC group 115, LC group 122:	PWB2001	HSPGDYAFDY	66	ASWDDSLNGRV	299	+
2	HC group 115, LC group 135:	PWB2855	HSPGDYAFDY	67	ASWDDSLKSRV	300	+
3	HC group 115, LC group 137:	PWB2916	HSPGDYAFDY	68	ASWDDSVNGRV	301	+
4	HC group 116, LC group 123:	PWB2002	AGRRTQLQPR DFLFY	69	NSRDSSGNHVV	302	+
5	HC group 116, LC group 127:	PWB2175	AGRRTQLQPR DFLFY	70	NSRDSSGNHVV	303	+
6	HC group 116, LC group 131:	PWB2362	AGRRTQLQPR DFLFY	71	NSRDSSGNHVV	304	+
7	HC group 116, LC group 132:	PWB2447	AGRRTQLQPR DFLFY	72	NSRDSSGNHVV	305	+
8	HC group 116, LC group 134:	PWB2754	AGRRTQLQPR DFLFY	73	NSRDSSGNHVV	306	+
9	HC group 117, LC group 122:	PWB2006	HSPGDYAFDY	74	ASWDDSLNGRV	307	+
10	HC group 118, LC group 124:	PWB2008	HSPGDYAFDY	75	ASWDDSLNGRV	308	+
11	HC group 119, LC group 123:	PWB2016	ASYLSTSSSL DY	76	NSRDSSGNHVV	309	+
12	HC group 119, LC group 133:	PWB2562	ASYLSTSSSL DY	77	NSRDSSGNHVV	310	+
13	HC group 120, LC group 123:	PWB2018	AGRRTQLQPR DFLFY	78	NSRDSSGNHVV	311	+
14	HC group 121, LC group 125	PWB2043	DLDSSТИPHRE YGMDV	79	HSRDSSGNHVL	312	+
15	HC group 122, LC group 123:	PWB2061	AGRRTQLQPR DFLFY	80	NSRDSSGNHVV	313	+
16	HC group 123, LC group 123:	PWB2144	AGRRTQLQPR DFLFY	81	NSRDSSGNHVV	314	+
17	HC group 124, LC group 126:	PWB2153	AGRRTQLQPR DFLFY	82	NSRDSSGNHVV	315	+
18	HC group 125, LC group 123:	PWB2202	ASNLSTSSSL DY	83	NSRDSSGNHVV	316	+
19	HC group 126, LC group 128:	PWB2216	SGSSWSHFDF	84	SSYTTTRSTRV	317	+
20	HC group 127, LC group 129:	PWB2281	GSPTGDLNVD VFDY	85	NSRDSSGNHVV	318	+
21	HC group 128, LC group 130:	PWB2301	HSPGDYAFDY	86	ASWDDSLNGRV	319	+
22	HC group 129, LC group 122:	PWB2323	VRDIRPGDYA FDY	87	ASWDDSLNGRV	320	+
23	HC group 130, LC group 123:	PWB2325	AGRRTQLQPR DFLFY	88	NSRDSSGNHVV	321	+
24	HC group 131, LC group 123:	PWB2334	Not Determined		NSRDSSGNHVV	322	+
25	HC group 132, LC group 122:	PWB2341	HSPGDYAFDY	89	ASWDDSLNGRV	323	+
26	HC group 133,	PWB2353	ASYLSTSPSL	90	NSRDSSGNHVV	324	+

	LC group 123:		DY				
27	HC group 134, LC group 123:	PWB2363	AGRRTQLQPR DFLF ^{EY}	91	NSRDSSGNHVV	325	+
28	HC group 135, LC group 122:	PWB2364	HSPGDYAFDY	92	ASWDDSLNGRV	326	+
29	HC group 136, LC group 123:	PWB2376	AGRRTQLQPR DFLF ^{EY}	93	NSRDSSGNHVV	327	+
30	HC group 137, LC group 128:	PWB2435	SGSSWSHFDF	94	SSYTTRSTRV	328	+
31	HC group 138, LC group 123:	PWB2456	AGRRTQLPPR DFLF ^{EH}	95	NSRDSSGNHVV	329	+
32	HC group 139, LC group 122:	PWB2466	HSPGDYAFDY	96	ASWDDSLNGRV	330	+
33	HC group 140, LC group 123:	PWB2502	ASNLSTSPSL DY	97	NSRDSSGNHVV	331	+
34	HC group 141, LC group 123:	PWB2532	AGRRTQLQPI DFLF ^{EY}	98	NSRDSSGNHVV	332	+
35	HC group 142, LC group 123:	PWB2617	AGRRTQLQPR DFLF ^{EY}	99	NSRDSSGNHVV	333	+
36	HC group 143, LC group 122:	PWB2756	HSPGDYAFDY	100	ASWDDSLNGRV	334	+
37	HC group 144, LC group 123:	PWB2849	AGRRTQLQPR DFLF ^{EY}	101	NSRDSSGNHVV	335	+
38	HC group 145, LC group 136:	PWB2873	GSGYSGYDFP YYYGMDV	102	HSRDSSGNHVL	336	+
39	HC group 146, LC group 123:	PWB2878	AGRRTQLQPR DFLF ^{EY}	103	NSRDSSGNHVV	337	+
40	HC group 147, LC group 123:	PWB2955	Not Determined		NSRDSSGNHVV	338	+
41	HC group 2, LC group 2:	PWC2008	AGRRTQLQPR DFLF ^{EY}	104	NSRDSSGNHVV	339	+
42	HC group 2, LC group 163:	PWC2065	AGRRTQLQPR DFLF ^{EY}	105	NSRDSSGNHVV	340	+
43	HC group 2, LC group 188:	PWC2963	AGRRTQLQPR DFLF ^{EY}	106	NSRDSSGNHVV	341	+
44	HC group 140, LC group 155:	PWC2002	DSSSGWFFID Y	107	QSYDSSLGGYVI	342	+
45	HC group 140, LC group 160:	PWC2043	ARDSSSGWFF IDY	108	QSYDSSLGGYVI	343	+
46	HC group 140, LC group 165:	PWC2302	DSSSGWFFID Y	109	QSYDSSLGGYVI	344	+
47	HC group 140, LC group 166:	PWC2308	DSSSGWFFID Y	110	QSYDSSLGGYVI	345	+
48	HC group 140, LC group 167:	PWC2310	DSSSGWFFID Y	111	QSYDSSLGGYVI	346	+
49	HC group 140, LC group 169:	PWC2361	DSSSGWFFID Y	112	QSYDSSLGGYVI	347	+
50	HC group 140, LC group 172:	PWC2461	DSSSGWFFID Y	113	QSYDSSLGGYVI	348	+
51	HC group 140, LC group 175:	PWC2616	DSSSGWFFID Y	114	QSYDSSLGGYVI	349	+
52	HC group 140, LC group 176:	PWC2632	DSSSGWFFID Y	115			+
53	HC group 140, LC group 179:	PWC2678	DSSSGWFFID Y	116	QSYDSSLGGYVI	350	+
54	HC group 140, LC group 183:	PWC2748	DSSSGWFFID Y	117	QSYDSSLGGYGI	351	+
55	HC group 141, LC group 156:	PWC2004	SRYSSSPFRG GLDV	118	HSYDSSISGGI	352	+
56	HC group 141, LC group 157:	PWC2007	SRYSSSPFRG GLDV	119	HSYDSSISGWI	353	+
57	HC group 141, LC group 158:	PWC2010	SRYSSSPFRG GLDV	120	HSYDSSISGWI	354	+

58	HC group 141, LC group 159:	PWC2021	SRYSSSPFRG GLDV	121	HSYDSSIRGWI	355	+
59	HC group 141, LC group 161:	PWC2046	SRYSSSPFRG GLDV	122	HSYDSSIRGGI	356	+
60	HC group 141, LC group 162:	PWC2057	SRYSSSPFRG GLDV	123	HSYDSSISGGI	357	+
61	HC group 141, LC group 164:	PWC2093	SRYSSSPFRG GLDV	124	HSYDSSISAWI	358	+
62	HC group 141, LC group 170:	PWC2375	SRYSSSPFRG GLDV	125	HSYDSSISGWI	359	+
63	HC group 141, LC group 178:	PWC2652	SRYSSSPFRG GLDV	126	HSYDSSISGWI	360	+
64	HC group 141, LC group 187:	PWC2939	SRYSSSPFRG GLDV	127	HSYDSSISGWI	361	+
65	HC group 142, LC group 160:	PWC2068	SSSGCLFIDY	128	QSYDSSLGGYVI	362	+
66	HC group 143, LC group 157:	PWC2131	SRYSSSPFRG GLDV	129	HSYDSSISGWI	363	+
67	HC group 143, LC group 158:	PWC2892	SRYSSSPFRG GLDV	130	HSYDSSISGWI	364	++
68	HC group 144, LC group 155:	PWC2151	DSSSGWFFID Y	131	QSYDSSLGGYVI	365	+
69	HC group 145, LC group 157:	PWC2156	SRYSSSPFRG GLDV	132	HSYDSSISGWI	366	+
70	HC group 146, LC group 157:	PWC2321	SRYSSSPFRG GLDV	133	HSYDSSISGWI	367	+
71	HC group 147, LC group 157:	PWC2332	SRYSSSPFRG GLDV	134	HSYDSSISGWI	368	+
72	HC group 148, LC group 168:	PWC2350	DSSSGWFFI	135	QSYDSSLGGYVI	369	+
73	HC group 149, LC group 155:	PWC2386	SSSGWLFDY	136	QSYDSSLGGYVI	370	+
74	HC group 150, LC group 171:	PWC2393	SRYSSSPFRG GLDV	137	HSYDSSISGWI	371	+
75	HC group 151, LC group 157:	PWC2412	SRYSSSPFRG GLDV	138	HSYDSSISGWI	372	+
76	HC group 152, LC group 155:	PWC2424	DSSSGWFFID Y	139	QSYDSSLGGYVI	373	+
77	HC group 153, LC group 155:	PWC2431	DSSSGWFFID Y	140	QSYDSSLGGYVI	374	+
78	HC group 154, LC group 157:	PWC2436	SRYSSSPFRG GLDV	141	HSYDSSISGWI	375	+
79	HC group 155, LC group 155:	PWC2444	DSSSGWFFID Y	142	QSYDSSLGGYVI	376	+
80	HC group 156, LC group 173:	PWC2590	TYPYGGGY AFDY	143	QSYDSELSGSEL	377	-
81	HC group 157, LC group 174:	PWC2606	NAFDY	144	NSLDSRGQRVI	378	+
82	HC group 158, LC group 177:	PWC2643	SAKSGWKSTF DV	145	ALYLGGGLSWV	379	-
83	HC group 159, LC group 180:	PWC2682	No seq.		AAWDDSLSAYV	380	-
84	HC group 160, LC group 181:	PWC2691	DSSSGWLFD Y	146	QSYDSSLGGYVI	381	+
85	HC group 161, LC group 157:	PWC2710	SRYSSSPFRG GLDV	147	HSYDSSISGWI	382	+
86	HC group 161, LC group 182:	PWC2722	SRYSSSPFRG GLDV	148	HSYDSSISGWI	383	+
87	HC group 162, LC group 184:	PWC2758	DSSSGWLFD Y	149	QSYDSSLGGYVI	384	+
88	HC group 163, LC group 185:	PWC2771	DSSSGWLFD Y	150	QSYDSSLGGYVI	385	+

89	HC group 164, LC group 157:	PWC2792	SRYSSSPFRG GLDV	151	HSYDSSISGWI	386	+
90	HC group 165, LC group 186:	PWC2901	QMIMAARC	152	QSFDNRRLRGFVV	387	-
91	HC group 166, LC group 155:	PWC2972	DSSSGWFFI	153	QSYDSSLGGYVI	388	+
92	HC group 167, LC group 155:	PWC2980	DSSSGWFFI	154	QSYDSSLGGYVI	389	+
93	HC group 148 LC group 138	PWD0103	VDHKWDLPF DY	155	ATWDDNLNGWV	390	+
94	HC group 148, LC group 194:	PWD0332	VDHKWDLPF DY	156	ATWDDSLNGWV	391	+
95	HC group 148, LC group 249:	PWD0853	VDHKWDLPF DY	157	ATWDDSLNGWV	392	+
96	HC group 148, LC group 272:	PWD1070	VDHKWDLPF DY	158	AAWDDSLNGWV	393	+
97	HC group 149, LC group 139:	PWD0104	LLRGGSTYLD AFDN	159	QVWDRSNGHVV	394	+
98	HC group 149, LC group 199:	PWD0384	LLRGGSTYLD AFDN	160	QVWDRSNGHVV	395	+
99	HC group 150, LC group 140:	PWD0106	GWGVFDI	161	AAWDDSLDGVV	396	+
100	HC group 151, LC group 141:	PWD0108	VDHNWDLPF DY	162	SAWDDSLNGWV	397	+
101	HC group 151, LC group 143:	PWD0111	VDHNWDLPF DY	163	ASWDDDLNGWV	398	+
102	HC group 151, LC group 195:	PWD0336	VDHNWDLPF DY	164	AVWDDDRMNGW E	399	+
103	HC group 151, LC group 208:	PWD0435	VDHNWDLPF DY	165	AAWDDSLNGWV	400	+
104	HC group 151, LC group 234:	PWD0757	VDHNWDLPF DY	166	AVWDDRLNGWE	401	+
105	HC group 151, LC group 248:	PWD0848	VDHNWDLPF DY	167	VDHNWDLPDF	402	+
106	HC group 151, LC group 253:	PWD0875	VDHNWDLPF DY	168	AAWDDSLSGWM	403	+
107	HC group 151, LC group 257:	PWD0925	VDHNWDLPF DY	169	ASWDDDLKSWV	404	+
108	HC group 151, LC group 269:	PWD1048	VDHNWDLPF DY	170	AAWDDSLSGWV	405	+
109	HC group 152, LC group 142:	PWD0109	VDHNWDLPF DY	171	ATWDDSLKGWV	406	+
110	HC group 152, LC group 164:	PWD0171	VDHNWDLPF DY	172	QQSKSIPIT	407	-
111	HC group 152, LC group 197:	PWD0366	VDHNWDLPF DY	173	VAWDDSLNGW M	408	+
112	HC group 152, LC group 214:	PWD0470	VDHNWDLPF DY	174	AAWDDSLSGWV	409	+
113	HC group 153, LC group 144:	PWD0112	VDHKWDLPF DY	175	AAWDDSLKGWV	410	+
114	HC group 153, LC group 227:	PWD0679	VDHKWDLPF DY	176	SAWDDGLSGWV	411	+
115	HC group 154, LC group 145:	PWD0114	VDHKWDLPF DY	177	ATWDDSLPGLV	412	+
116	HC group 154, LC group 215:	PWD0526	VDHKWDLPF DY	178	EAWDDSLSGPA	413	+
117	HC group 154, LC group 239:	PWD0810	VDHKWDLPF DY	179	AAWDDNLSGP	414	-
118	HC group 154, LC group 267:	PWD1012	VDHKWDLPF DY	180	QQTYRTPIT	415	+
119	HC group 154, LC group 270:	PWD1050	VDHKWDLPF DY	181	GTWDSRLYVGQ V	416	+

120	HC group 155, LC group 146:	PWD0118	VDHNWDLPF DY	182	AAWDDSLNGWV	417	+
121	HC group 155, LC group 172:	PWD0205	VDHNWDLPF DY	183	AAWDDSLNGWV	418	+
122	HC group 155, LC group 241:	PWD0813	VDHNWDLPF DY	184	ATWDDSLNHWV	419	+
123	HC group 155, LC group 244:	PWD0827	VDHNWDLPF DY	185	AAWDDSLNGHW V	420	+
124	HC group 155, LC group 271:	PWD1063	VDHNWDLPF DY	186	AAWDDSLSGVL	421	+
125	HC group 156, LC group 147:	PWD0121	YVADTSKDV FDI	187	NSRDSSGNVV	422	+
126	HC group 157, LC group 148:	PWD0123	VASTALYFDN	188	ASWDDTLKGGV	423	+
127	HC group 158, LC group 149:	PWD0124	GVYNWNSAA KFDY	189	QSYDNSLSGSE	424	+
128	HC group 159, LC group 150:	PWD0127	TYYYYYYYNY MDV	190	NSRDSSGDPVT	425	+
129	HC group 160, LC group 151:	PWD0130	VAHGWHLSF DY	191	SAWDDSLKGWV	426	+
130	HC group 161, LC group 152:	PWD0133	SLFRVRGVFF DY	192	ASRDSSANQHW V	427	+
131	HC group 161, LC group 158:	PWD0150	SLFRVRGVFF DY	193	QSYDSSSTGI	428	+
132	HC group 162, LC group 153:	PWD0135	GPAGLQLSLD I	194	AAWDDSLNGLV	429	+
133	HC group 163, LC group 154:	PWD0136	VDHRWDLPF DY	195	STWDGSLNGWV	430	+
134	HC group 164, LC group 155:	PWD0139	VDHKWDLPF DY	196	AAWDDSLNGWV	431	+
135	HC group 164, LC group 163:	PWD0169	VDHKWDLPF DY	197	STWDDSLRGVV	432	+
136	HC group 164, LC group 181:	PWD0254	VDHKWDLPF DY	198	AVWDDSLNGWV	433	+
137	HC group 164, LC group 240:	PWD0811	VDHKWDLPF DY	199	APWDDSLNGWV	434	+
138	HC group 165, LC group 156:	PWD0146	ARDYYFGMD V	200	SAWDDSLHGPV	435	+
139	HC group 166, LC group 157:	PWD0147	GPAGLQLSLD I	201	AAWDDSLNGVV	436	+
140	HC group 167, LC group 159:	PWD0151	DRSKLNAGYF DS	202	QSYDNSLSAW	437	+
141	HC group 168, LC group 160:	PWD0154	TKYSSIVFDL	203	AAWDDSLNVVV	438	+
142	HC group 169, LC group 161:	PWD0157	FRFLVWYGE AYFDY	204	SSRDNSGDRLVL	439	+
143	HC group 170, LC group 162:	PWD0164	VRGQLLAFDI	205	AAWDDSLNGWV	440	+
144	HC group 171, LC group 165:	PWD0175	VDHKWDLPF DY	206	ATWDDSLRGWV	441	+
145	HC group 171, LC group 182:	PWD0258	VDHKWDLPF DY	207	ATWDDSVRGWV	442	+
146	HC group 172, LC group 166:	PWD0176	GPAGLQLSLD I	208	ATWDDSLSGWV	443	+/-
147	HC group 173, LC group 167:	PWD0177	TKYSSIVFDL	209	AAWDDSLNAVL	444	+
148	HC group 174, LC group 168:	PWD0183	AVWDDSLNG H	210	VDRRWDLPPDY	445	+
149	HC group 175, LC group 169:	PWD0187	TKYSSIVFDL	211	ASWDDSLNGV	446	+
150	HC group 176, LC group 170:	PWD0189	LDHKWDLPF DY	212	EAWDDSLSGPA	447	+/-
151	HC group 177,	PWD0190	VDHNWDLPF	213	GTWDSRLSAVV	448	+

	LC group 171:		DY				
152	HC group 178, LC group 173:	PWD0211	EYYYRWGSY AN	214	NSRDSSGNPVV	449	+/-
153	HC group 179, LC group 174:	PWD0218	VDHKWDLPF DY	215	TAWDDSLNGWV	450	+
154	HC group 180, LC group 175:	PWD0228	VDHNWDLPF DY	216	AAWDDILNGWV	451	+
155	HC group 181, LC group 176:	PWD0229	SLFRVRGVFF DY	217	NSRDSSGNHVV	452	+
156	HC group 181, LC group 193:	PWD0329	SLFRVRGVFF DY	218	QAWDSSTTWE	453	+
157	HC group 181, LC group 233:	PWD0754	SLFRVRGVFF DY	219	ETWDTSLSLV	454	+
158	HC group 182, LC group 177:	PWD0233	DLGVGRYFD Y	220	SSRDNSGDPL	455	+
159	HC group 182, LC group 223:	PWD0611	DLGVGRYFD Y	221	SSRDNSGDPL	456	+
160	HC group 183, LC group 178:	PWD0243	SLFRVRGVFF DY	222	NSRDSSGNHWV	457	+
161	HC group 184, LC group 179:	PWD0246	DRSKLNAGYF DS	223	QSYDSSLSAYV	458	+
162	HC group 184, LC group 263:	PWD0968	DRSKLNAGYF DS	224	QSYDSGLSAVV	459	+
163	HC group 185, LC group 180:	PWD0248	LDHNWDLPF DY	225	ASWDDSLSGWV	460	+
164	HC group 185, LC group 207:	PWD0427	LDHNWDLPF DY	226	ATWDDSLSGLL	461	+
165	HC group 185, LC group 235:	PWD0766	LDHNWDLPF DY	227	ASWDDSLKGVV	462	+
166	HC group 186, LC group 183:	PWD0259	TKYSSIVFDL	228	AAWDDRLSGPV	463	+
167	HC group 186, LC group 210:	PWD0441	TKYSSIVFDL	229	AAWDDSLNGML	464	+
168	HC group 186, LC group 243:	PWD0824	TKYSSIVFDL	230	AAWDDSLNGP	465	+/-
169	HC group 187, LC group 184:	PWD0268	LDHNWNLPF D	231	ATWDDRLKGFW	466	+
170	HC group 188, LC group 185:	PWD0283	VGGAIRFDS	232	SAWDDSLSGVV	467	+
171	HC group 189, LC group 186:	PWD0288	SVGRSLAFDI	233	AAWDDSLNGHV V	468	+
172	HC group 190, LC group 187:	PWD0291	RTGDCSYTSC Y	234	QTWDSTTAS	469	+
173	HC group 191, LC group 188:	PWD0294	GPAGLQLSLD I	235	SAWDDSLNGPA	470	+
174	HC group 191, LC group 209:	PWD0440	GPAGLQLSLD I	236	SAWDDSLNGPA	471	+
175	HC group 192, LC group 189:	PWD0305	VDHKWDLPF DY	237	ATWDDTLSGLV	472	+
176	HC group 193, LC group 190:	PWD0308	FTGWYGAFDI	238	ATWDDSVNGPA	473	+
177	HC group 194, LC group 191:	PWD0318	DRYNMVGVL RPDS	239	SSYARSNNFGV	474	-
178	HC group 195, LC group 192:	PWD0323	QIWGRFEY	240	AAWDDRLNGYV	475	+
179	HC group 195, LC group 219:	PWD0587	QIWGRFEY	241	AAWDDSLNGVV	476	+
180	HC group 196, LC group 196:	PWD0339	GYDFWSGFD Y	242	QVWDSTSDHRI	477	+
181	HC group 197, LC group 140:	PWD0355	GWGVFDM	243	AAWDDSLDGVV	478	+
182	HC group 198, LC group 198:	PWD0369	VDHKWDLPF DF	244	ASWDDSLDGWV	479	+/-

183	HC group 199, LC group 200:	PWD0389	ARALFRVSGP Y	245	SSYSGDVNFIV	480	+
184	HC group 200, LC group 201:	PWD0391	DHPYNWNYF DY	246	QQLNRYPSL	481	-
185	HC group 201, LC group 202:	PWD0392	GAPAVRHGF DY	247	QQYYSTPPT	482	-
186	HC group 202, LC group 203:	PWD0412	VDHKWDLPF DY	248	ATWDDSLKGTV	483	+
187	HC group 203, LC group 204:	PWD0416	FGTGSSLEV	249	AAWDDSLNGVV	484	+
188	HC group 204, LC group 205:	PWD0422	QAFARFEF	250	SSWDDSLNGVV	485	+
189	HC group 205, LC group 206:	PWD0424	NLQDIVATILP FDY	251	GTWDSSLNTYV	486	-
190	HC group 206, LC group 141:	PWD0436	VDHNWDLPF DY	252	SAWDDSLNGWV	487	+
191	HC group 207, LC group 211:	PWD0451	GDPEELRSDS YFYYGMDV	253	QSYDSSLGSGWV	488	-
192	HC group 208, LC group 212:	PWD0454	LDHKWDLPF DH	254	EAWDDSLSGPA	489	+
193	HC group 209, LC group 213:	PWD0469	TKYSSVAFDL	255	ATWDDSLNGVV	490	+
194	HC group 210, LC group 139:	PWD0525	LLRGGSTYLD AFDX	256	QVWDRSNGHVV	491	+
195	HC group 211, LC group 216:	PWD0541	Not Determined		QQFKSYPLT	492	-
196	HC group 212, LC group 217:	PWD0542	GVYGGGSAG LYFDV	257	QVWDNSSGWV	493	+
197	HC group 213, LC group 218:	PWD0568	GEMATIRY	258	ATWDDSLNGWV	494	+
198	HC group 214, LC group 220:	PWD0588	VDHKWDLPF DY	259	AAWDASLTWV	495	+
199	HC group 215, LC group 221:	PWD0593	VDHNWDLPF DY	260	AAWDDSLNGVV	496	+
200	HC group 216, LC group 222:	PWD0605	ASSWYLVFDI	261	AAWDDSLNGWV	497	+
201	HC group 216, LC group 259:	PWD0929	ASSWYLVFDI	262	AAWDDSLNGWV	498	+
202	HC group 217, LC group 224:	PWD0615	SLFRVRGVFF DY	263	GTWDSSLSDGKV V	499	+
203	HC group 218, LC group 146:	PWD0635	VDHNWDLPF DY	264	AAWDDSLNGWV	500	+
204	HC group 219, LC group 225:	PWD0638	VDHNWDLPF DY	265	ATWDDSRGGWV	501	+
205	HC group 220, LC group 226:	PWD0648	VDRRWDLPF DY	266	ASWDDSVGSWV	502	+
206	HC group 221, LC group 228:	PWD0706	VDHKWDLPF DF	267	AAWDDSLNGWV	503	+
207	HC group 222, LC group 229:	PWD0709	GGPPFGSSYD V	268	ASWDDDSLGLV	504	+
208	HC group 223, LC group 230:	PWD0718	PTYGPGSFLID H	269	ATWDDSLNGPV	505	+
209	HC group 224, LC group 231:	PWD0721	TRGYSLYFDS	270	ATWDDSLMVGV	506	+
210	HC group 225, LC group 232:	PWD0730	VDHNWDLPF DY	271	ATWDDSLNGWV	507	+
211	HC group 226, LC group 236:	PWD0773	GPAGLQLSLD I	272	AVWDDSLNGVI	508	+
212	HC group 227, LC group 237:	PWD0776	GPAGLQLSLD I	273	AAWDDNLNGVV	509	+/-
213	HC group 228,	PWD0791	VDHKWDLPF	274	AAWDDSLKGWV	510	+

	LC group 144:		DY				
214	HC group 229, LC group 238:	PWD0808	AGGSSLVFDS	275	AVWDDGLSGWV	511	+
215	HC group 230, LC group 242:	PWD0821	DGPSNYMDV	276	QQYYSTPIT	512	-
216	HC group 231, LC group 245:	PWD0830	VDHNWDLPF DY	277	VAWDDSLNGWV	513	+
217	HC group 232, LC group 246:	PWD0834	DGDYSSSSL Y	278	QSHDNTLGEV	514	-
218	HC group 233, LC group 247:	PWD0838	VRVPGRDGM DV	279	ASWDDSLTWV	515	-/+
219	HC group 234, LC group 250:	PWD0858	GSGSYIAFDI	280	AAWDDSLSGPV V	516	+
220	HC group 235, LC group 251:	PWD0864	TTVTTESDWF DL	281	NSRDSSGNHFDV V	517	-/+
221	HC group 236, LC group 252:	PWD0871	VDHNWDLPF DY	282	ATWDDSLNGFV	518	+
222	HC group 237, LC group 217:	PWD0876	GVYGGGSAG LYFDV	283	QVWDNSSGWV	519	+
223	HC group 238, LC group 254:	PWD0880	GPSGLLGLD V	284	AVWDDSLNGVL	520	+
224	HC group 239, LC group 255:	PWD0884	VASTALYFDN	285	AAWDDSLTGWV	521	+
225	HC group 240, LC group 256:	PWD0914	LSGVTLHMD V	286	AAWDDSLKGPV	522	+
226	HC group 241, LC group 258:	PWD0928	VRGGNLAFDF	287	AAWDDSLSGWV	523	+
227	HC group 242, LC group 260:	PWD0934	SLFRVRGVFF DY	288	VTWDGSLGVVM	524	+
228	HC group 243, LC group 144:	PWD0948	EDHKWDLPF DY	289	AAWDDSLKGWV	525	+
229	HC group 244, LC group 261:	PWD0949	GALSSFDS	290	AAWDDSLNGWV	526	+
230	HC group 245, LC group 262:	PWD0953	QIWGRFEY	291	AAWDDSLNGVV	527	+
231	HC group 246, LC group 146:	PWD0963	ADHNWDLPF DY	292	AAWDDSLNGWV	528	+
232	HC group 247 LC group 264:	PWD0991	AHWGSRVDY	293	AAWDDSLNGVV	529	+
233	HC group 248, LC group 265:	PWD0995	LLRGGSTYLD AFDN	294	QVWDRSNGHVV	530	+
234	HC group 249, LC group 266:	PWD1003	Not Determined		NSRDSSGNLWV	531	-
235	HC group 250, LC group 268:	PWD1038	EVGSYFDY	295	AAWDDSLNGVV	532	+
236	HC group 251, LC group 273:	PWD1072	VDHNWDLPF DY	296	AAWDDSLNGWV	533	+
237	HC group 252, LC group 274:	PWD1077	SLFRVRGVFF DY	297	NSRDNSGNLWV	534	+
238	HC group 253, LC group 275:	PWD1079	GPRFWTGYY DY	298	QQSLTAWT	535	+